

TCO14UR

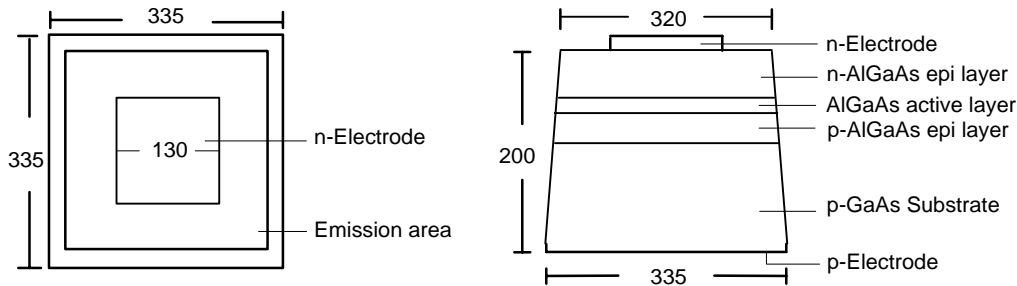
■ Features :

- AlGaAs/AlGaAs epi wafer
- DDH structure
- Ultra brightness

■ Typical Applications :

- Lamp
- Display

■ Outline Dimensions : (Unit: μm)



■ Physical Structure :

Chip dimension	Chip size	335 μm x 335 μm
	Thickness	200 μm
	Emission area	320 μm
	Bonding pad	130 μm
Electrode	Top: N (cathode)	Gold alloy
	Backside: P (anode)	Gold alloy
Surface condition	Not frosted	

■ Electro-Optical Characteristics : ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20 \text{ mA}$	-	1.90	2.30	V
Reverse Current	I_R	$V_R = 5 \text{ V}$	-	-	10	μA
Wavelength	λ_P	$I_F = 20 \text{ mA}$	650	660	670	nm
	Hue		-	643	-	
Spectral width at half height	$\Delta\lambda$	$I_F = 20 \text{ mA}$	-	20	-	nm
Reverse Voltage	V_R	$I_R = 10 \mu\text{A}$	5.0	-	-	V
Luminous Intensity	I_V	$I_F = 20 \text{ mA}$	40	-	75	mcd

■ Note

Available in sizes: 10, 11, 12, 14, 20, 30 mils